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L1              STRUCTURE UPLOADED
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     FILE 'CAPLUS' ENTERED AT 15:16:11 ON 14 JUL 2010

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L5           50 S L1 SSS SAM
L6       151660 S L1 SSS FULL

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L7          223 S L6 AND (L2 OR L3 OR L4)
L8            8 S L7 AND (PY<=2003 OR AY<=2003 OR PRY<=2003)

L8   ANSWER 1 OF 8  CAPLUS  COPYRIGHT 2010 ACS on STN
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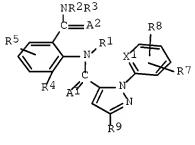

I

AB Synergistic insecticidal compns. comprising nicotinic receptor agonists and antagonists RNACX:XE [R= H,(un)substituted acyl, alkyl, aryl, etc.; A = H, acyl, alkyl, aryl,etc; E = electron receptor; X = CH or N; Z = alkyl, OR, SR or NR2; ANCZ = cycle] and anthranilic acid amides I [A1, A2 = O or S; X1 = N or C10; R1 = H,(un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, the substituents being R6, halo, CN, etc.; R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, etc.; R3 = H, alkyl, alkenyl, etc.; R2NR3 = ring; R4 = H, (halo)alkyl, (halo)alkenyl, etc.; R5, R8 = H, halo, (un)substituted (halo)alkyl, etc.; R6 = CH(:E1), LCH(E1), etc.; E1 = O, S, NH, N:S:O, N(NO)2, etc.; L = O, S, NH, etc.; R7 = H, halo, (halo)alkyl, (halo)alkoxy, etc.; R9 = halo, haloalkyl, haloalkoxy or halosulfinyl].

ACCESSION NUMBER: 2005:470209 CAPLUS Full-text
DOCUMENT NUMBER: 143:2638
TITLE: Synergistic insecticidal compositions comprising
nicotinic receptor agonists and antagonists

and
anthranilic acid amides
INVENTOR(S): Funke, Christian; Fischer, Reiner; Fischer, Ruediger;
Hungenberg, Heike; Andersch, Wolfram; Thielert,
Wolfgang; Kraus, Anton
PATENT ASSIGNEE(S): Bayer Cropscience Aktiengesellschaft, Germany
SOURCE: PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005048711	A1	20050602	WO 2004-EP12328	20041030 <--
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EP 1686857	A1	20060809	EP 2004-791081	20041030 <--
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L8 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN
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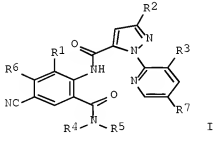

I

AB The title compds. [I; R1 = Me, Cl, Br, F; R2 = F, Cl, Br, haloalkyl or haloalkoxy; R3 = F, Cl, Br; R4 = H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, each optionally substituted with one substituent selected from the group consisting of halo, CN, SMe S(O)Me, S(O)2Me and OMe; R5 = H, Me; R6 = H, F, Cl; R7 = H, F, Cl], useful for controlling an invertebrate pest, were prepared E.g., a multi-step synthesis of compound I [R1 = Me; R2

= CF3; R3 = Cl; R4, R5 = H], was given. The compds. I were tested in various biol. tests (data given). This invention also pertains to a composition for controlling an invertebrate pest comprising a biol. effective amount of a compound I, an N-oxide thereof or a suitable salt of the compound I and at least one addnl. component selected from the group consisting of a surfactant, a solid diluent and a liquid diluent.

ACCESSION NUMBER: 2004:648522 CAPLUS Full-text
DOCUMENT NUMBER: 141:190786
TITLE: Preparation of cyano anthranilamide insecticides
INVENTOR(S): Hughes, Kenneth Andrew; Lahm, George Philip; Selby, Thomas Paul; Stevenson, Thomas Martin
PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA
SOURCE: PCT Int. Appl., 63 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004067528	A1	20040812	WO 2004-US3568	20040121 <--
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CN 100441576	C	20081210		
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L8 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN
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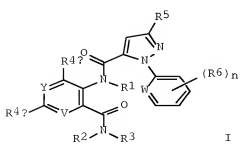

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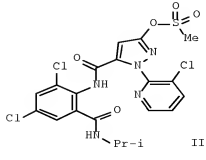

II

AB The invention provides title compds. I and their N-oxides and suitable salts [wherein: Y, V = N or CR4a; W = N, CH, or CR6; R1 = H, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl, alkylcarbonyl, alkoxycarbonyl, (di)alkylaminocarbonyl; R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkoxy, (di)alkylamino, cycloalkylamino, alkoxycarbonyl, or alkylcarbonyl; R3 = H, G, (un)substituted alkyl, alkenyl, alkynyl or cycloalkyl; or NR2R3 = (un)substituted heterocyclic (N/O/S) ring; G = (un)substituted 5- or 6-membered non-aromatic carbo- or heterocyclic ring; R4a, R4b = H, various carbon and heteroat. substituents; R5 = alk(en/yn)yl, various derivs. of OH, SH, and NH2; R6 = (halo)alk(en/yn)yl, OH and derivs. or thio analogs, halo, cyano, CO2H, (di)alkylamino, (un)substituted Ph, PhCH2, PhCO, PhO, etc.; n = 0-4]. The invention also pertains to compns. for controlling invertebrate pests, comprising a biol. effective amount of I, their N-oxides, or their agronomically or nonagronomically suitable salts, and at least one addnl. component selected from surfactants, solid diluents, and liquid diluents, and optionally further comprising an effective amount of at least one addnl. biol. active compound or agent. Also disclosed are methods for controlling invertebrate pests by contact of the pests or their environment with said compds. Eighteen compds. I were prepared and tested. For instance, 3-chloro-2-hydrazinopyridine was cyclocondensed with di-Et maleate to give 55% Et 1-(3-chloro-2-pyridinyl)-3-pyrazolidinone-5-carboxylate, which was oxidized to a dihydropyrazolone, saponified to an acid, cyclized with dichloroanthranilic acid to give a benzoxazinone, O-mesylated at the pyrazolone, and ring-opened with MeNH2, to give invention compound II. In a test of larval Plutella xylostella on radish plants, II at 50 ppm (spray) reduced feeding damage by 80% or more. Compds. I were also effective against Spodoptera frugiperda, Myzus persicae, and Empoasca fabae.

ACCESSION NUMBER: 2004:453202 CAPLUS Full-text
DOCUMENT NUMBER: 141:23526
TITLE: Novel pyrazole-based anthranilamide insecticides and their preparation, compositions, and use
INVENTOR(S): Hughes, Kenneth Andrew; Lahm, George Philip; Selby, Thomas Paul
PATENT ASSIGNEE(S): E.I. Du Pont De Nemours and Company, USA
SOURCE: PCT Int. Appl., 96 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004046129	A2	20040603	WO 2003-US36167	20031112 <--
WO 2004046129	A3	20040715		

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    EP 1560820           A2    20050810    EP 2003-786682
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    EP 1560820           B1    20100526
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    CN 100486975         C     20090513
    JP 2006514632        T     20060511    JP 2004-553598
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    AT 469143            T     20100615    AT 2003-786682
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    US 20060014808       A1    20060119    US 2005-529612
20050330 <--
    US 7666882           B2    20100223
    MX 2005005025        A     20050803    MX 2005-5025
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PRIORITY APPLN. INFO.:                       US 2002-426693P     P
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L8   ANSWER 4 OF 8  CAPLUS  COPYRIGHT 2010 ACS on STN
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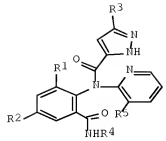

I

AB Title compds. [I; R1, R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halo, cyano, alkoxy, haloalkoxy, alkylthio, alkylsulfonyl, trialkylsilyl, etc.; R3 = H, alkyl, haloalkyl, halo, cyano, NO2, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, haloalkylthio, alkoxycarbonyl, etc.; R4 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R5 = H, alkyl, alkenyl, alkynyl, cycloalkyl, haloalkyl, haloalkenyl, haloalkynyl, halocycloalkyl, halo, cyano, CO2H, CONH2, NO2, OH, alkoxy, haloalkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl, alkylamino, alkylcarbonyl, alkoxycarbonyl, trialkylsilyl, etc.], were prepared Thus, 1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H- pyrazole-5-carboxylic acid (preparation given) was stirred with (COCl)2 and cat. DMF in CH2Cl2 to give crude acid chloride, which was refluxed 3 h with 8-methyl-2H-3,1-benzoxazine-2,4(1H)-dione (preparation given) and pyridine in MeCN to give 2-[1-(3-chloro-2-pyridinyl)-3-trifluoromethyl-1H-pyrazol-5- yl]-8-methyl-4H-3,1-benzoxazin-4-one. The latter was refluxed 1.5 h with Me2CHNH2 to give 1-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-3-trifluoromethyl-1H-pyrazole-5- carboxamide. This was stirred overnight with DBU in MeCN to give N-(3-chloro-2-pyridinyl)-N-[2-methyl-6-[[(1-methylethyl)amino]carbonyl]phenyl]-5-trifluoromethyl-1H-pyrazole-3- carboxamide. The latter at 250 ppm on radishes preinfested with Plutella xylostella gave ≤10% feeding damage.

ACCESSION NUMBER: 2003:261833 CAPLUS Full-text
DOCUMENT NUMBER: 138:287669
TITLE: Preparation of pyrazolylcarbonyl pyridinyl anthranilamides as arthropodicides
INVENTOR(S): Zimmerman, William Thomas
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003027099	A1	20030403	WO 2002-US28274	20020906 <--

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EP 1438305 A1 20040721 EP 2002-799567
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L8 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN
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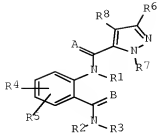

I

AB An invertebrate pest control composition for coating a propagule comprises (1) a biol. effective amount of an anthranilamide compds. I (Markush included), an N-oxide thereof or an agriculturally suitable salt thereof, and (2) a film former or adhesive agent. Arthropodicidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ-aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, and fungicides. The propagule is a seed of cotton, maize, soybean, rice, etc., or a rhizome, tuber, bulb or corm, or viable division thereof, of potato, sweet potato, garden onion, tulip, daffodil, crocus hyacinth, etc., or is a stem or leaf cutting.

ACCESSION NUMBER: 2003:242097 CAPLUS Full-text
DOCUMENT NUMBER: 138:267201
TITLE: Pesticidal compositions for coating plant propagation material containing anthranilamides
INVENTOR(S): Berger, Richard Alan; Flexner, John Lindsey
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003024222 <--	A1	20030327	WO 2002-US30302	20020910

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L8 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN
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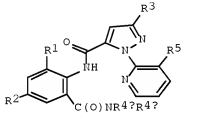

I

AB Anthranilamides I (Markush included), their N-oxides and agriculturally suitable salts are prepared as arthropodicides for controlling invertebrate pests. Arthropodicidal compns. containing anthranilamides I may further include addnl. biol. active compds. or agents selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ-aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics, Bacillus thuringiensis sp. aizawai, B. thuringiensis sp. kurstaki, B. thuringiensis delta endotoxin, baculoviruses, and entomopathogenic bacteria, viruses and fungi.

ACCESSION NUMBER: 2003:154155 CAPLUS Full-text
DOCUMENT NUMBER: 138:200332
TITLE: Arthropodicidal anthranilamides
INVENTOR(S): Lahm, George Philip; Selby, Thomas Paul; Stevenson,
Thomas Martin
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 82 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

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WO 2003015519	A1	20030227	WO 2002-US25615	20020813 <--
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L8 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN
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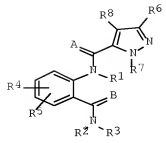

I

AB Anthranilamide compds. I (Markush included), N-oxides or an agriculturally suitable salts thereof are prepared as insecticides for controlling lepidopteran, homopteran, hemipteran, thysanopteran and coleopteran insect pests. Insecticidal composition containing anthranilamide compds. I may further comprise addnl. biol. active compds. selected from arthropodicides of the group consisting of pyrethroids, carbamates, neonicotinoids, neuronal sodium channel blockers, insecticidal macrocyclic lactones, γ-aminobutyric acid (GABA) antagonists, insecticidal ureas, and juvenile hormone mimics.

ACCESSION NUMBER: 2003:154154 CAPLUS Full-text
DOCUMENT NUMBER: 138:200331
TITLE: Method for controlling particular insect pests by applying anthranilamide compounds
INVENTOR(S): Lahm, George Philip; McCann, Stephen Frederick; Patel, Kanu Maganbhai; Selby, Thomas Paul; Stevenson, Thomas Martin
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 150 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003015518	A1	20030227	WO 2002-US25613	20020813 <--

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L8 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2010 ACS on STN
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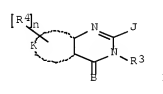

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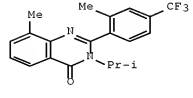

II

AB The title compds. [I; B = O, S; J = (un)substituted Ph, naphthyl, 5-6 membered heteroarom. ring, etc.; K, together with the two contiguous liking carbon atoms = a fused Ph, or fused pyridinyl, each optionally substituted with 1-4 R4; R3 = G, alkyl, cycloalkyl, etc.; G = (un)substituted Ph, 5-6 membered heteroarom. ring, etc.; R4 = H, alkyl, haloalkyl, etc.; n = 1-4], useful for

controlling invertebrate pests, were prepared E.g. a multi-step synthesis of II which provided very good level of plant protection (20% or less feeding damage) in in test on diamondback moth (Plutella xylostella)/radish plant, was given. This invention also pertains to certain compds. I and compns. for controlling invertebrate pests comprising a biol. effective amount of a compound I and at least one addnl. component selected from the group consisting of surfactants, solid diluents and liquid diluents. [This abstract record is one of 3 records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

ACCESSION NUMBER: 2002:465981 CAPLUS Full-text
DOCUMENT NUMBER: 137:47212
TITLE: Preparation of quinazolinones and pyridopyrimidinones for controlling invertebrate pests
INVENTOR(S): Annis, Gary David; Myers, Brian James; Selby, Thomas Paul; Stevenson, Thomas Martin; Zimmerman, William Thomas
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 180 pp. CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002048115	A2	20020620	WO 2001-US46629	20011203 <--
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